

Lightweight cementitious building material

Publication number: AU3768301

Publication date: 2001-09-17

Inventor: BUYSSE RENE FRANCOIS

Applicant: BUYSSE RENE FRANCOIS

Classification:

- international: C04B28/02; C04B28/00;

- European: C04B28/02

Application number: AU20010037683D 20010227

Priority number(s): WO2001IB00400 20010227; ZA20000001179 20000308

Also published as:



WO0166485 (A3)



WO0166485 (A2)

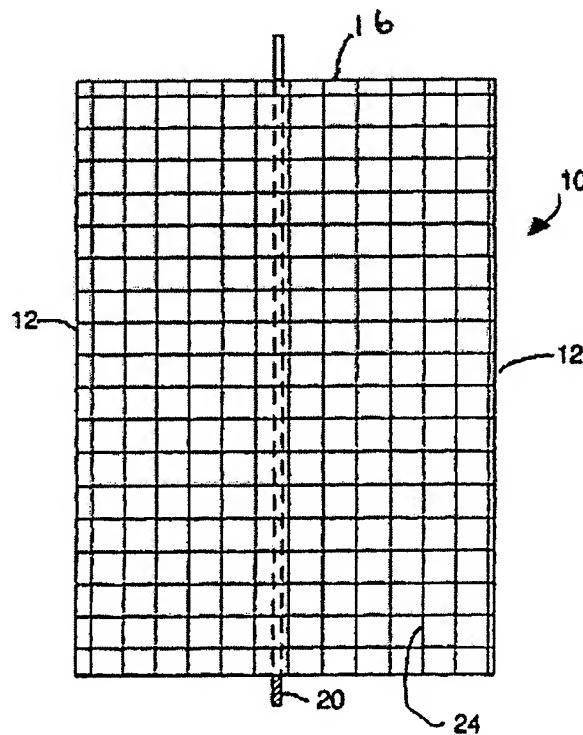
[Report a data error here](#)

Abstract not available for AU3768301

Abstract of corresponding document: WO0166485

While it is known to make lightweight cementitious products using cement, water and a lightweight filler such as expanded polystyrene, perlite, vermiculite or air bubbles, their use has been limited because of poor repeatability of obtaining homogeneous mixtures. The invention provides a lightweight cementitious mixture comprising by volume: 5 to 80 % cement, 10 to 65 % expanded polystyrene particles; 10 to 90 % expanded mineral particles; and water sufficient to make a paste with a substantially even distribution of expanded polystyrene after proper mixing. The combination of expanded polystyrene particles and expanded mineral particles, such as of perlite and/or vermiculite, surprisingly enables homogeneous, repeatable mixing to occur. Thus products with stable, expected properties can be produced for a range of structural and non-structural applications.

The invention provides a lightweight cementitious mixture comprising by volume: 5 to 80 % cement, 10 to 65 % expanded polystyrene particles; 10 to 90 % expanded mineral particles; and water sufficient to make a paste with a substantially even distribution of expanded polystyrene after proper mixing. The combination of expanded polystyrene particles and expanded mineral particles, such as of perlite and/or vermiculite, enables homogeneous, repeatable mixing to occur. Thus products with stable, expected properties can be produced for a range of structural and non-structural applications.



Data supplied from the esp@cenet database - Worldwide

